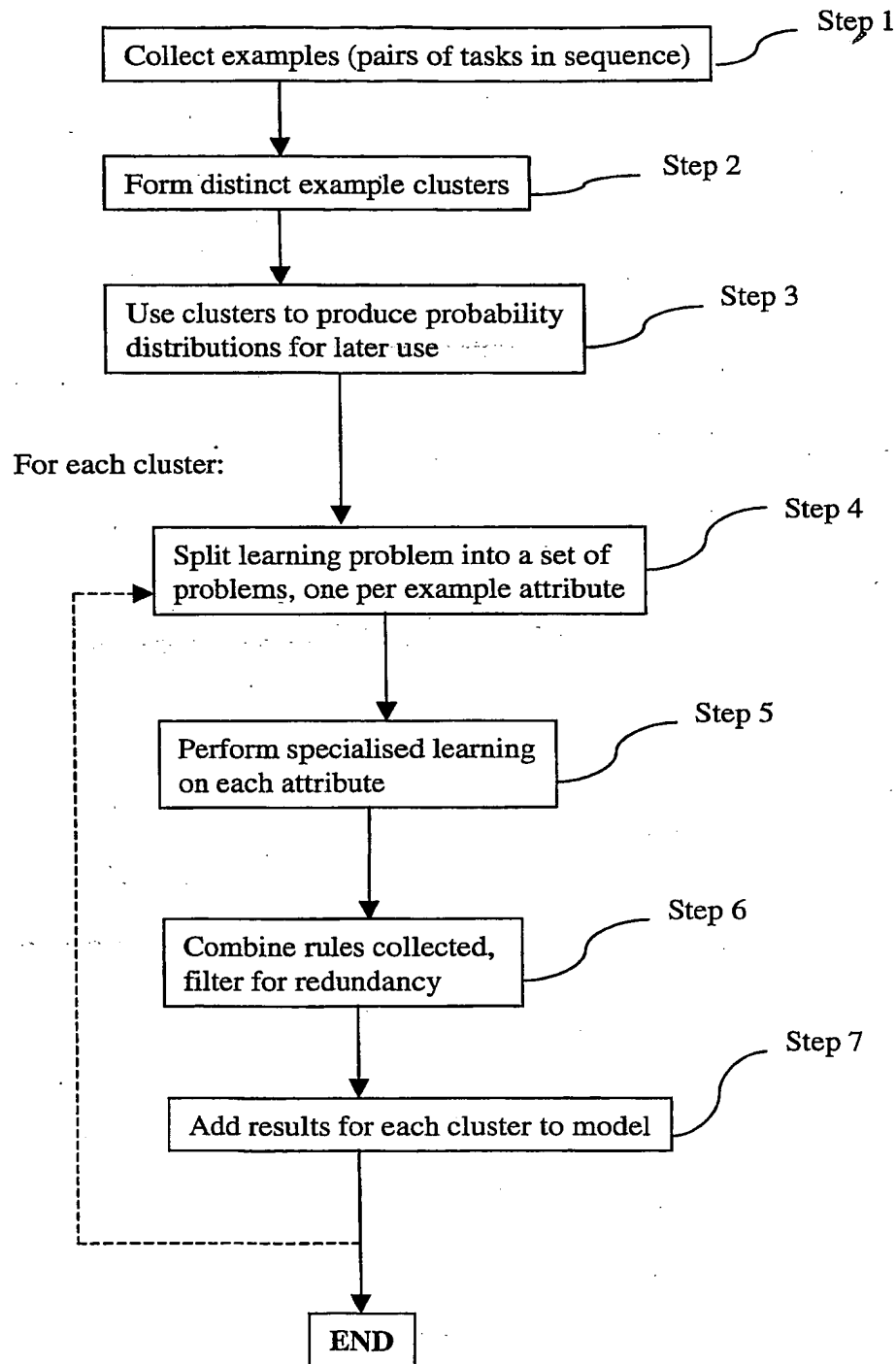


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**Figure 1. Process Diagram for Construction of the User Model**

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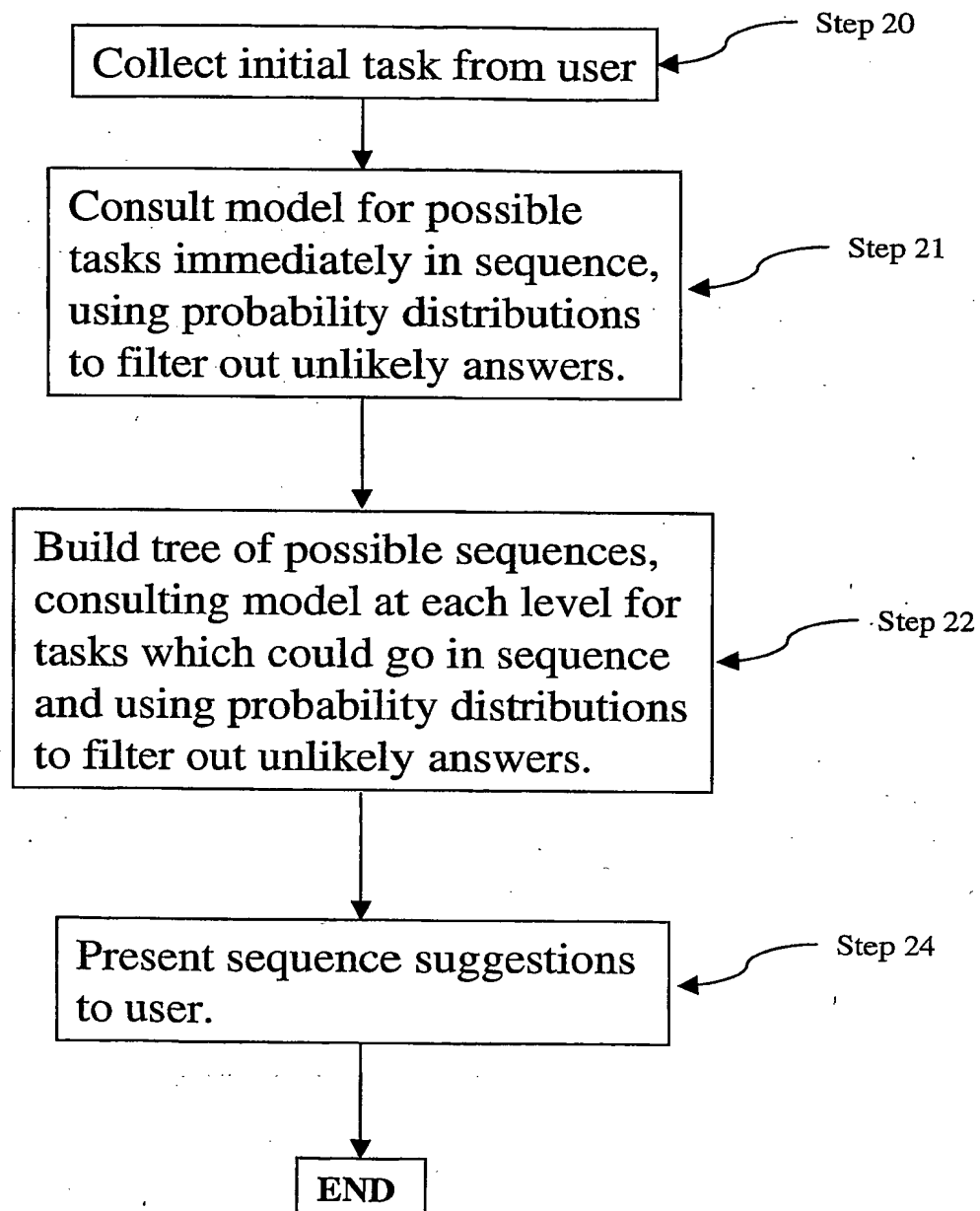


Figure 2a: Summary Diagram showing Prediction of Sequences of Tasks

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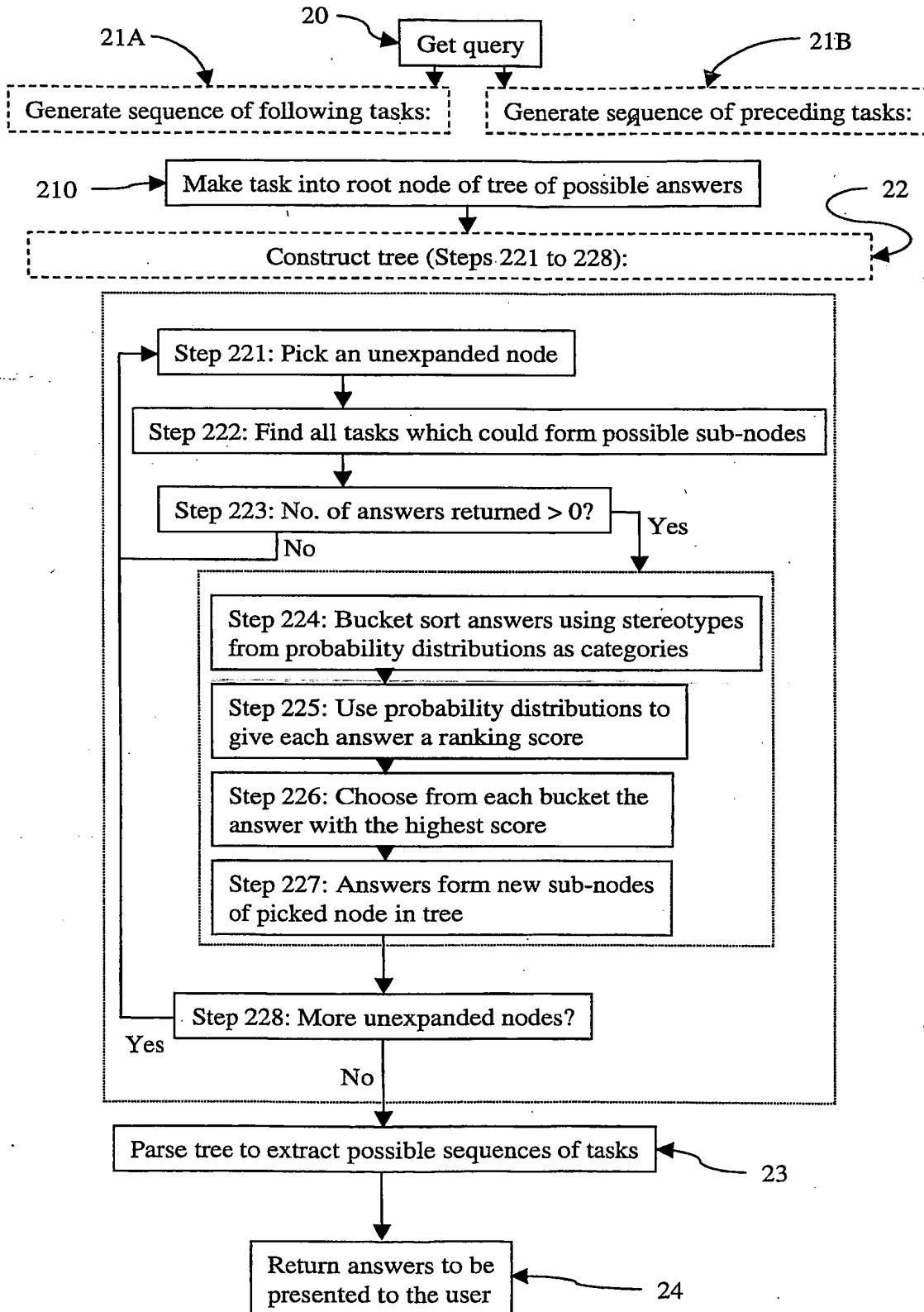


Figure 2b: Process Diagram showing Prediction of Sequences of Tasks

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301: Get query tasks

For each task:

Generate sequence of following tasks:

302

303: Make task into root node of tree of possible answers

Construct tree:

304

305: Pick an unexpanded node

306: Find all tasks which could form possible sub-nodes

No of answers returned > 0 ?

Yes

No

307: Bucket sort answers using stereotypes from probability distributions as categories

308: Use probability distributions to give each answer a ranking score

309: Choose from each bucket the answer with the highest score

310: Select those answers which are close to those user specified tasks which are not already represented by a node in the tree under construction

311: Answers form new sub-nodes of picked node in tree

Yes

312: More unexpanded nodes?

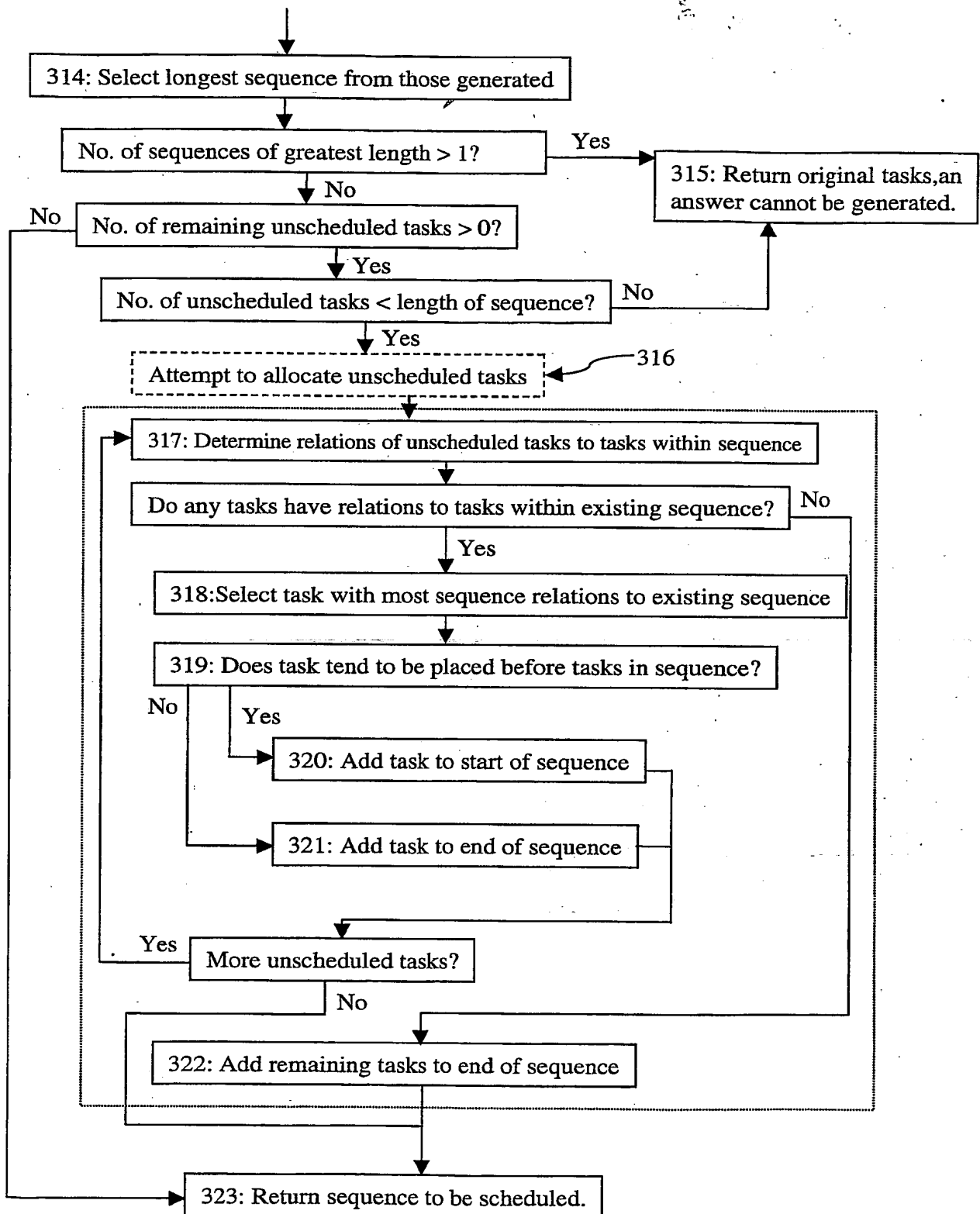
No

313: Parse tree to extract longest possible sequence of tasks

Figure 3 (continued)

Figure 3: Process Diagram for Predicting Sequences for Sets of Tasks

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**Figure 3 (continued)**